



E/PO Program

Education and Public Outreach Goal



We will utilize the observations and scientific discoveries of the GLAST mission to improve the understanding and utilization of science and mathematics concepts for grades 9-12.



Ambassadors Program

- Develop, distribute and field test GLAST material
- Train other teachers at local and national conferences
- First five Ambassadors chosen, five more positions opening in 2004
- Summer workshop @ SSU: July 15-19, 2002



Meet the Ambassadors



Daryl Taylor
Williamstown HS, NJ



Jason Smith
Challenger Center, MD



Teena Della
Terry Fox Secondary
BC, Canada



Mike Ford
Holton HS, KS



Tim Brennan
Woodstock Union HS, VT



Ambassadors Online

Homepage:

<http://www-glast.sonoma.edu/epo/ambassadors/>

Bulletin board:

- announcements
- exchange ideas
- keep track of history
- interactivity; promotes sense of team

GLAST Ambassador Bulletin Board Forums

[Registered](#) [\[Edit Profile\]](#) [\[Edit Your Preferences\]](#) [\[Search\]](#)
[\[Private Messages\]](#) [\[Members\]](#) [\[FAQ\]](#) [\[Login\]](#)

Our users have posted a total of 28 Messages.
Total registered users = 8
The newest Registered User is: none
1 user is currently browsing the board.
Not logged in. [Login](#).

Forum	Topics	Posts	Last Post	Moderator
Administration				
Announcements This forum contains official GLAST announcements of interest to the program.	2	9	2001-11-19 14:05 by tdella	Administrator
About this board You'll find announcements pertaining to the board itself here. Any suggestions about the board or website can go here as well.	0	0	No Posts	Administrator
GLAST in the Classroom				
AGN Poster Discuss the Active Galaxy poster and teacher's guide.	1	6	2001-11-22 08:47 by tdella	Administrator
Classroom Activities Got an idea for a nifty GLAST-related classroom activity? Talk about it!	0	0	No Posts	Administrator
Chat chat				
Current and Future Events Post here to talk about any events in which you are participating; presentations to other teachers, the public, TV, etc.	1	13	2001-11-21 10:18 by tdella	Administrator

= New Posts since your last visit.
 = No New Posts since your last visit.

GLAST



Outreach Web Site

<http://www-glast.sonoma.edu>

- Currently undergoing complete makeover
- Easier to navigate, find material
Google search implemented
- Separate (but related) sections for teachers, students, public



Space Mysteries



- Alien Bandstand
- Live from 2-Alpha
- Star Market Scandal (coming soon)

- NASA LEARNERS funded “Alien Bandstand” and “Live from 2-Alpha” are online:

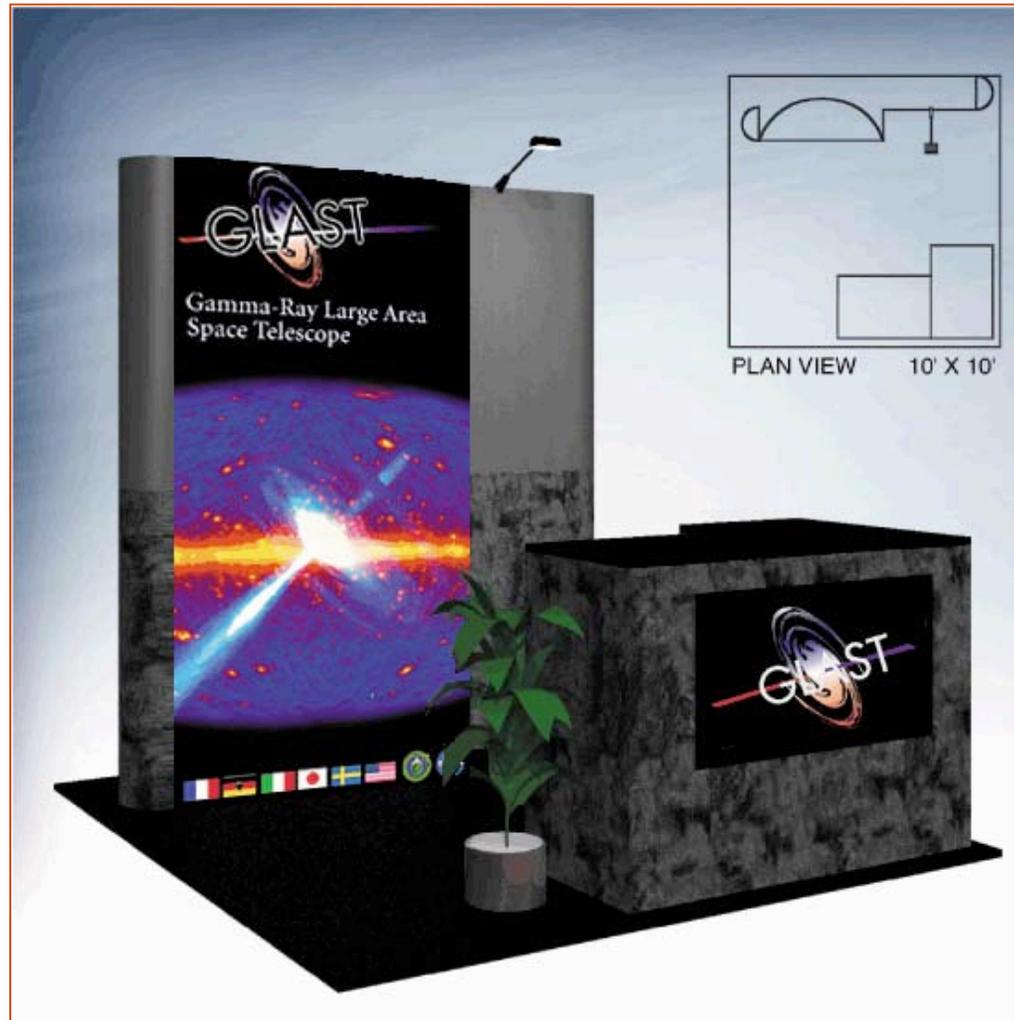
<http://mystery.sonoma.edu/>

- GLAST will fund two Mysteries based on high energy astronomy/physics



Exhibit Booth

- CSTA 10/01 in Palm Springs
- NSTA Southeast regional in Memphis 12/01
- Both of these teachers meetings used a new graphic that combined GLAST and Swift in one booth
- AAS in DC in 1/02
- Sonoma-Marín County fair?





E/PO Program Status

- Printed materials

- TOPS Learning Systems (2002-2004) – sub-contract in place and outline of 1st module approved (TOPS has spent two years field testing.)
- Teacher's activity booklets and posters (bi-yearly) – first one will be on Unified AGN model, to be released in Spring 2002
- GLAST EPO flyer part of SEU folders distributed – 8000 distributed during 2001 teacher's conferences.
- GLAST Program flyers now completely distributed



AGN Classroom Activities

- Based on GLAST science, AGN poster
- Standards-based
- Extensive field testing planned
- Ideas solicited from Ambassadors
 - Cut-out models of AGN
 - Light echoes
 - Our place in the Universe
 - Measuring scales



AGN Unified Model



Art: Aurore Simonnet

Text: Phil Plait



AGN Poster Detail

When seen from the side, the relatively weak emission from the lobes becomes apparent. The jets from the black hole travel hundreds of thousands of light years before billowing into huge clouds of radio-wave emitting gas.

This image from the Very Large Array maps the radio emission from the lobes of matter in the active galaxy Cygnus A. The central region of the galaxy can be seen as just a dot, while the much larger jets transform into ethereal clouds over 300,000 light years from the central black hole.

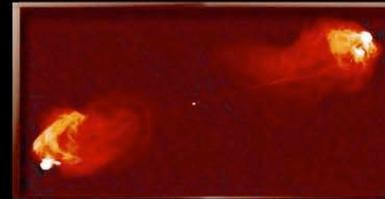


Image credit NRAO/AUI

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E/PO Program Status

- **PBS TV Show**
 - Discussions with Tom Lucas are underway – planned meeting in mid-December, outline submitted
- **Museum Exhibit**
 - Jerry Bonnell working with SEU and Cominsky on national traveling exhibit “Cosmic Questions”
- **Public Talks**
 - Cominsky gave public talk at Foothills College “Silicon Valley Lecture Series” – 800 attended



E/PO Program Status

- Telescope Network
 - NSF proposal results will be known in January 2002
 - Subcontract in place with John Mattox at Francis Marion University, to support Robotically Controlled Telescope
 - MOA in progress with RCT and SLAC for archiving of RCT and GTN data
 - Other venues being pursued: Apple Valley Radio Telescope and Liverpool, UK
 - Data being taken at SSU now to define archive and data base needs



Assessment/Dissemination

- WestEd assessment sub-contract on hold pending FY02 funds
- Dissemination being tracked by SSU
- GLAST Products entered into Space Science Resource Directory
- Ambassadors using online form for EdCats submission



Metrics

- **3 Activities entered into EdCats**
 - Colloquia: 6 given, 203 students, 175 faculty, 166 other
 - Chats: 5 run, 29 active participants, 710 passive
 - Teacher Workshops: 2 given (+1 poster at AAS), 1275 teachers, 1800 students
- **8000 GLAST Flyers distributed as part of SEU folders**
 - NSTA 2500
 - NCTM 1000
 - CSTA 750
 - NSTA (SE Regional) 750
 - NSTA Midwest Regional 750 (Jim Lochner)
 - SEU, brokers, Ambassadors, miscellaneous 2250



The Future

- Finish AGN poster and print >10000 copies for 2002 SEU kits
- Continue work on AGN activities
- Improve website
- Next round of Ambassadors (2003)
- Space Mysteries (2004-2005)
- PBS Show (starts R&D in 2003)



Educational Workshops

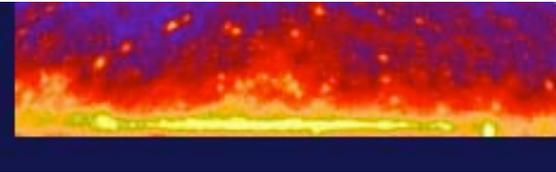


- Planning underway for MSFC/AAVSO workshop to be held in Hawaii during Summer 2002



GLAST Web Chats

QUEST CHATS



May 30, 2001 David Palmer

April 25, 2001 Steve Ritz

March 28, 2001 Daniel Suson

February 28, 2001 Neil Gehrels

January 24, 2001 Dave Thompson

Monthly chats
with GLAST
scientists and
engineers

We are currently pursuing chats through other avenues